

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (currently amended) An electrode comprising an intermetallic lithium/transition metal pnictide phase, wherein the transition metal present in said lithium/transition metal pnictide phase ~~is a metal of one of the columns IVa and Va of the periodic table of the elements~~ is depicted by formula (I):



wherein:

- M represents a metal of one of the columns IVa and Va of the periodic table of the elements;

- Pn represents a pnictogene element selected in the group consisting of N, P, As, and Sb;

- x represents a number between 2.0 and 11.0; and

- y represents a number between 0.2 and 2.2.

2. (canceled)

3. (original) An electrode according to claim 1, wherein, in formula (I), M represents a metal of the group consisting of Ti, V, Nb and Ta.

4. (original) An electrode according to claim 2, wherein, in formula (I), y represents a number between 0.4 and 2.1.

5. (original) An electrode according to claim 2, wherein, in formula (I), y represents a number between 0.7 and 1.3.

6. (withdrawn) A process for making an electrode as described in claim 1, wherein the intermetallic lithium/transition metal pnictide phase is obtained by a method comprising a step consisting of treating at a temperature ranging from 400°C to 1000°C a blend comprising:

- (i) a pnictogene element, in the elemental form and/or in the form of pnictide anions;
- (ii) lithium, in the metallic form and/or in the form of lithium cations; and
- (iii) said transition metal of one of the columns IVa and Va of the periodic table of the elements, in a metallic form.

7. (withdrawn) A process according to claim 6, wherein the treatment is carried out under inert atmosphere.

8. (withdrawn) A process according to claim 6, wherein the molar ratio lithium (ii)/pnictogene element (i)] is comprised between 2/4 and 11/4 in said blend; and the molar ratio [transition metal (iii)/pnictogene element (i)] being of between 0.2/4 and 2.2/4 in said blend.

9. (withdrawn) A process according to claim 6 wherein the blend comprises:
- a lithium pnictide; and
45. said transition metal in a metallic form.

10. (withdrawn) A process according to claim 6, wherein the intermetallic lithium/transition metal pnictide phase is obtained by a method comprising a step consisting of treating said blend at a temperature ranging from 800°C to 1000°C.

11. (withdrawn) A process according to claim 6, wherein said blend further comprises lithium, in a metallic form.

12. (withdrawn) A process according to claim 6, wherein the blend comprises:
- phosphorus or arsenic in the elemental state;
- metallic lithium; and
46. said transition metal, in a metallic form.

13. (withdrawn) A process according to claim 6, wherein, after the thermal treatment, the blend is submitted to a quenching step.

14. (withdrawn) A process according to claim 6, wherein, after the thermal treatment, the blend is submitted to a quenching step which is carried out by cooling the blend at a temperature of less than 10°C, preferably more than -210°C.

15. (withdrawn) A process according to claim 6, wherein, after the thermal treatment, the blend is submitted to a quenching step which is carried out in water or liquid nitrogen.

16. (currently amended) An electrochemical cell comprising a negative electrode, an electrolyte electrolyte and a positive electrode, the negative electrode corresponding to a material containing an intermetallic lithium/transition metal pnictide phase, ~~said transition metal being a metal of one of the columns IVa and Va of the periodic table of the elements is depicted by formula (I):~~



wherein:

- M represents a metal of one of the columns IVa and Va of the periodic chart of the elements;

- Pn represents a pnictogene element, that is N, P, or As;

- x represents a number between 2.0 and 11.0; and

- y represents a number between 0.2 and 2.2.

17. (canceled)

18. (original) An electrochemical cell according to claim 17, wherein, in formula (I), M represents a metal of the group consisting of Ti, V, Nb and Ta.

19. (currently amended) A rechargeable lithium-ion battery which comprises a plurality of cells, electrically connected, each cell comprising a negative electrode, an electrolyte and a positive electrode, the negative electrode corresponding to a material containing an intermetallic lithium/transition metal pnictide phase, ~~said transition metal being a metal of one of the columns IVa and Va of the periodic table of the elements is depicted by formula (I):~~



wherein:

- M represents a metal of one of the columns IVa and Va of the periodic chart of the elements;

- Pn represents a pnictogene element, that is N, P, or As;

- x represents a number between 2.0 and 11.0; and

- y represents a number between 0.2 and 2.2.

20. (canceled)

21. (original) A rechargeable lithium battery according to claim 20, wherein, in formula (I), M represents a metal of the group consisting of Ti, V, Nb and Ta.